UK Patent Application (19) GB (11) 2 097 160 A

(54) Entertainment machines

(57) A coin-operated entertainment

- (21) Application No 8136391
- (22) Date of filing 2 Dec 1981
- (30) Priority data
- (31) **8103754 8110547**
- (32) 6 Feb 1981 3 Apr 1981
- (33) United Kingdom (GB)
- (43) Application published 27 Oct 1982
- (51) INT CL³ G07F 17/34
- (52) Domestic classification G4V 118 AA
- (56) Documents cited GB A 2062923 GB 1568522 GB 1359852
- (58) Field of search G4V
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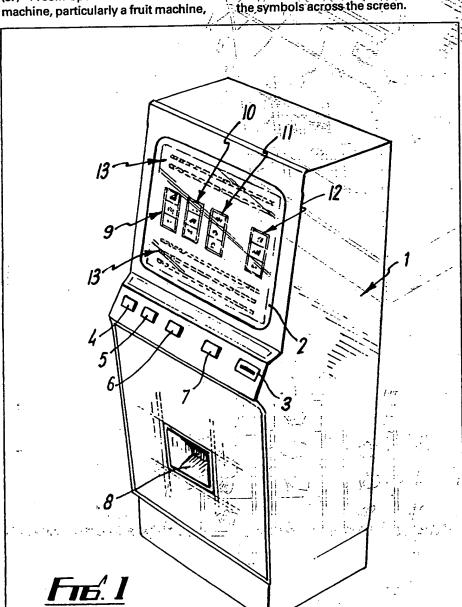
gions (9;10,11). Player-operable control buttons (4.5.6) are provided for use in replacing

(4,5,6) are provided for use in replacing the symbol at one region (9 to 11) with a symbol displayed elsewhere on the screen (region 12).

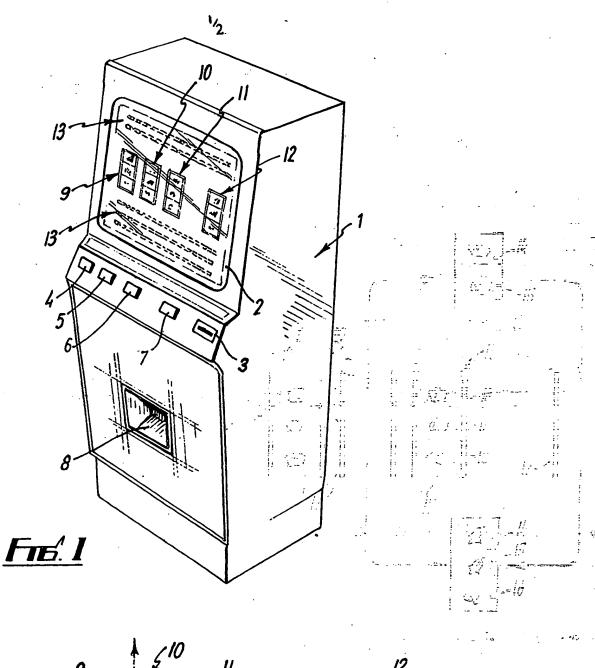
has a vdu-screen on which symbols are

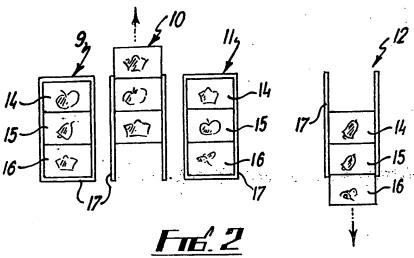
displayed at a number of separate re-

In a preferred embodiment the symbol to be replaced and the new symbol interchange positions in an operation involving simultaneous movement of the symbols across the screen.



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SPECIFICATION

Entertainment machines

5 This invention relates to a coin- or token- operated red to as the kind described) having a plurality of 10 at each of said regions with the aim of attaining a _____ 75 _said plurality of display regions. winning combination thereof.

described which are of the coin-operated fruit machine type the displayed symbols are selected at 15 random and a win indication is produced in the except 380 (or sets of symbols) from which one can be selected event that the resulting combination thereof is of a way and by the player for replacement purposes. predetermined winning nature. Rotatable reels hav- Said first symbol may be arranged to be replaced are commonly used to effect such random symbol 20 selection although it is also known to use an to produce a display simulating such reels. A vdu

to provide player-operable controls such as "hold" may be selected at random at an auxiliary display. and "nudge" buttons which can be used at the region or regions. The arrangement may be such beginning or end of a game to influence or modiy that the said control or controls can be operated at the selection of the displayed symbols thereby to Course oce the end of a game so that the player may have an

further kind of control which can be used to improve winning combination into a higher value winning the entertainment value of an entertainment machine of the kind described.

ed on said screen other than at said display region: to 16 of thway of example only and with reference to the Preferably, the control is a player-operable control accompanying drawings in which:although alternatively an automatic control may be a the areas Figure 1 is a diagrammatic perspective view of one 45 used.

With this arrangement the entertainment value of mit this and no displaced with the entertainment value of mit this the machine can be improved.

such that operation of the said control effects 0 previously occupied by the first said symbol. The 55 first said symbol on replacement thereof may re- o. appear in or move across the screen to the position previously occupied by the second symbol. Move-siments of the first and second symbols may occur simultaneously.

display region in which case the said control may be operable to effect replacement of one or more such previously displayed elsewhere on the screen.

symbols can be replaced at only one or alternatively at some or all of the display regions, and there may be a single said player-operable control or alternatively a plurality of controls, for example one for 70 each display region. Where symbols can be replaced entertainment machine of the kind (hereinafter referon of this at a plurality of display regions the player may have believed the the option to effect replacement at only one selected to the selection display regions and which can be operated by a section of display-region. Alternatively, the player may have the black display-region. player to produce a display of one or more symbols --- the option to effect replacement at any or all of the

Further, for the or each display region at which With known entertainment machines of the kind symbol replacement can be effected there may be only a single replacement symbol (or set of symbols) or alternatively there may be a plurality of symbols

ing symbols marked around the peripheries thereof with said second symbol taken from one other said display region. Alternatively said first symbol may 85 be arranged to be replaced with said second symbol electronic visual display unit (vdu) which is operable taken from an auxiliary region not being one of said display regions-

system of this kind is described in our published. The entertainment machine of the invention may Patent No. 1,596,363. With such coin-operated fruit machines it is known = 90 In this case the said replacement symbols 30 improve the entertainment value of the machine, 95 opportunity of converting a losing combination into An object of the present invention is to provide a prove the a winning combination or of converting a low value inviting combination. Alternatively and in the case where one or more "hold" buttons are provided to hold one According to the invention therefore there is 100 or more displayed symbols at the start of a game, provided an entertainment machine of the kind in the said control or described wherein the said display regions are Operation by controls can be operated at the start of the game views, allegic defined by regions of a vdu screen characterised in appears before operation of an associated hold button or arrange that the machine has a control which is operable to here publitions thereby to improve the chance of obtaining 40 effect replacement of at least one symbol displayed thro105 a winning combination in the following game. at at least one display region with a symbol display-se switches The invention will now be described further by

move of 10 years of machine according to the present invention;

then interchan Figures 2 and 3 are diagrammatic representations In a preferred embodiment the arrangement is _____ for display regions of the machine at different stages The three during displacement thereof.

50 disappearance of the first said symbol (or alternational disappearance of the first symbol (or alternat tively displacement thereof from its respective dispresse at the of the kind described in our published Patent No. 1. A composition play region) and the second said symbol is arranged a symbol 1596;363 (and to which reference is made for a more to move across the screen to take up the position detailed description thereof) and comprises a floorstanding box-structure housing 1 containing a col-120 our video tube the front screen 2 of which is exposed through an opening in a front wall of the housing. A conventional coin mechanism has a slot 3 which is mounted at the front of the housing 1 as also are control switches 4,5,6,7 and a pay-out chute 8. Inside

There may be a plurality of symbols at each said 125 the housing there is an electronic control system which is connected to the coin mechanism to the control switches 4 to 7 to the video tube and to other symbols with a corresponding number of symbols at the same time than is mechanisms and devices such as indicator lamps, game counters, pay-out solenoids and the like.

In the manner described in nublished Patent

1,596,363 the video tube produces at four regions 9 to 12 displays simulating the peripheries of conventional fruit machine reels and at other regions 13 decorative and/or informative displays. Three of the 5 regions 9 to 11 are equally spaced from each other. and each provides a respective display of a vertical series of three fruit-containing areas 14,15,16 contained within a frame 17, the areas of all such regions 9 to 11 being respectively horizontally 10 aligned with each other. The fourth region 12 is spaced more widely from the other regions 9 to 11 but produces a similar horizontally aligned display of three fruit-containing regions 14 to 16 within a frame 17.

In use, after actuation of the machine by insertion 15 of one or more coins or tokens into the slot 3, and after operation of a start switch 7 by a player, the displays at the regions 9 to 12 change in a manner simulating the rotation of reels, such change termi-20 nating (after a different period of time for each region) with a fixed display of a series of three randomly selected fruit-containing areas 14 to 16 at each region 9 to 12. At the end of the game, if the horizontally aligned central areas 15 of the three 25 regions 9 to 11 contain a combination of fruit which is of a predetermined winning nature, the player can obtain an appropriate award (which may be a direct pay-out of coins or tokens, an opportunity to have a

further game or games, etc.). On an occasional random basis, at the end of the 30 game the player is provided with an opportunity to improve the combination on the winning line with the aim of converting a winning combination into a further winning combination having an award of 35 greater value or of converting a lost game into a winning game. When such opportunity arises, which is signalled by a displayed notification on the screen 2 and/or by actuation of indicator lamps, the player can operate any one of three of the switches 4,5,6, 40 which are positioned respectivemly directly beneath the three regions 9 to 11. On operation of one of these switches 4 to 6 the three fruit-containing areas 14 to 16 of the pertaining region start to move bodily upwardly as indicated in Figure 2 whilst at the same

45 time the areas 14 to 16 of the fourth region 12 start to move bodily downwardly (the frames 17 opening to permit this). These displaced sets of areas 14 to 16 then interchange positions as shown in Figure 3 to give a new fruit combination on the winning line.

50 The three switches 4 to 6 beneath the regions 9 to 11 can also be used as conventional hold buttons i.e. for use at the start of a game (when such facility is made availabe to the player) to hold the displays against changing during the ensuing game.

With the arrangement described above considerable entertainment value can be derived from the opportunity afforded to the player to improve or modify the fruit combination obtained on the win-

60 It is of course to be understood that the invention is not intended to be restricted to the details of the above embodiment which are described by way of example only. Thus, for example, the interchange facility can be made available on a regular rather

65 than a random basis and can be made available for

all regions as desired. Further, alternatively or additionally, the interchange facility may be made available at the start of a game in conjunction with the use of a hold facility. Still-further, the symbol or 70 set of symbols used for interchange purposes need not be provided by an auxiliary "reel" (i.e. display 12) but may comprise any other suitable form of fixed or changeable display. Moreover, it will be appreciated that it is also possible to interchange the displays 9 to 11 with each other directly or via the display region 12, if desired.

Still further, the adjustment circuit used to effect interchange of displayed symbols need not be arranged to be actuated solely by player-operable 80 controls (i.e. the buttons 4 to 6) but alternatively or additionally may be arranged to be actuated automatically. For example, on a regular or random basis interchange of symbols from one or more of the main display regions (9,10,11) may be initiated at the 85 start or end of a game, such interchange being of a random nature, or of a predetermined nature, or of a determined nature with the deliberate aim of achieving in so far as possible an improved combination (i.e. by converting a losing combination to a winning combination or by converting a winning combination into a higher value winning combination). In the last mentioned respect attention is directed to our co-pending Application of even date claiming priority from Application No. 8110547 and which discloses a machine whuich can be operated by a player at the start of a game, after actuation of a coin or token mechanism of the machine, to initiate performance of first machine operations represented by visual displays of a moving or changing 100 nature at a plurality of display regions on the machine, such first operations terminating at random at the end of the game in a combination of fixed visual displays at such regions, and which is arranged to perform further operations resulsting in a win indication in the event that said combination of fixed displays at the end of the game is of a predetermined nature, and said machine having a control device which is operable to provide a control facility to cause a fixed display at at least one said display region to change to a different fixed display as selected automatically by the machine with the aim of improving the combination of fixed displays at said display regions.

115 CLAIMS

1. A coin or token-operated entertainment machine having a plurality of display regions and which can be operated by a player to produce a display of one or more symbols at each of said regions with the aim of attaining a winning combination thereof, said display regions being defined by regions of a vdu screen, characterised in that the machine has a control which is operable to effect 125 replacement of at least one symbol displayed at at least one display region with a symbol displayed on

2. A machine according to claim 1, wherein said control is a player-operable control.

3. A machine according to claim 1 or 2, wherein 130

said screen other than at said display region.

said second symbol is arranged to move across the vdu screen into the said display region to take up the position previously occupied by the first said symbol.

- 5 4. A machine according to any one of claims 1 to 3, wherein the first said symbol is arranged to move across the vdu screen out of the said display region to vacate the position thereof to be taken up by the second symbol.
- 10 5. A machine according to claim 4, when dependent on claim 3, wherein the movements across the screen of the first and second symbols are arranged to take place simultaneously.
- A machine according to any one of claims 1 to
 5, wherein said first and second symbols are arranged to interchange positions thereof.
- A machine according to any one of claims 1 to 6 wherein said first symbol is arranged to be replaced with said second symbol taken from one 20 other said display region.
- A machine according to any one of claims 1 to 7, wherein said first symbol is arranged to be replaced with said second symbol taken from an auxiliary region not being one of said display
 regions.
 - A machine according to any one of claims 1 to 8, wherein each said display region contains a plurality of symbols at different areas thereof and operation of said control is arranged to effect
- 30 replacement of all said symbols together from one said display region with a corresponding set of symbols displayed elsewhere on said screen.
- 10. A machine according to any one of claims 1 to 9, which is a fruit machine and wherein said
 35 symbols are selected at random at said display regions.
 - 11. A machine according to claim 10 wherein displays simulating the rotation of reels are produced at said display regions.
- 40 12. A machine according to claim 11, when dependent on claim 7, wherein a display simulating the rotation of a reel is also produced at said auxiliary region.
- A coin-operated entertainment machine sub stantially as hereinbefore described with reference to and as illustrated in the accompanying drawings.

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